

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A liquid crystal panel comprising:
a pair of substrates bonded to each other by a sealant ~~with a~~
~~predetermined gap therebetween;~~
a liquid crystal enclosed in the an inner region delimited by the sealant
between the pair of substrates; and
electrodes formed on an inner side of each of the pair of the substrates ~~for~~
~~controlling the alignment state of the liquid crystal;~~
terminals formed on the inner side of each of the pair of substrates for
conducting between the substrates, the terminals being connected through a conductive
particle included in the sealant; and
an alignment layer formed on the electrodes and covering inside the inner
region delimited by the sealant;
wherein the alignment layer is formed ~~so as to partially overlap the sealant~~
~~in a region for conducting between the substrates and cross a region for forming the~~
~~sealant in a region other than the region for conducting between the substrates~~ from the
inner region to an intermediate portion of a sealant region on which the sealant is
formed, along a side of the sealant provided with the terminals; and
the alignment layer crosses over the sealant region to an outer side of the
sealant, along a side of the sealant other than the side provided with the terminals.

2. (Original) A liquid crystal panel according to claim 1, wherein the sealant is a one-part thermosetting epoxy sealant.

3. (Currently Amended) A liquid crystal panel according to claim 1, wherein the alignment layer is formed up to ~~the~~ a region overlapping the region for forming the sealant in the sections corresponding to the four sides of the substrate.

4. (Currently Amended) A liquid crystal panel according to claim 1, wherein the alignment layer is formed up to ~~the~~ edges of the substrates across the region for forming the sealant in the individual sides of the substrate excluding the side provided with input-output terminals and the terminals for conducting between the substrates.

5. (Currently Amended) A liquid crystal panel according to claim 1, wherein the alignment layer is formed up to ~~the~~ edges of the substrate across the region for forming the sealant in the individual sides of the substrate excluding the side provided with the input-output terminals for conducting between the substrates.

6. (Currently Amended) A method of fabricating a liquid crystal panel defined in claim 1, wherein the electrodes are formed on the surface of a large substrate for forming a plurality of pairs of substrates in ~~the~~ individual regions for forming the substrates which are divided by cutting the large substrate along cutting projection lines,

and then thin films for forming the alignment layers are formed inside the region delimited by the sealant, and the alignment ~~film~~ layers are also formed to partially overlap the sealant in a region for conducting between the substrates and to cross the regions for forming the sealant in a region other than the region for conducting between the substrates.

7. (Original) A method of fabricating a liquid crystal panel according to claim 6, wherein the electrodes are formed on the surface of the large substrate for forming a plurality of pairs of substrates in the individual regions for forming the substrates which are divided by cutting the large substrate along cutting projection lines, and then the films for forming the alignment layers are formed on a plurality of substrate forming-regions including the cutting projection lines.

8. (Original) A method of fabricating a liquid crystal panel according to claim 7, wherein the electrodes are formed on the surfaces of a pair of large substrates for forming a plurality of pairs of substrates in the regions for forming the individual substrates which are divided by cutting the large substrates along cutting projection lines, the thin films for forming the alignment layers are formed on the plurality of substrate forming-regions including the cutting projection lines in each of the pair of large substrates, the sealant is formed on at least one of the pair of large substrates to bond the large substrates to each other, and the bonded large substrates are cut along the cutting projection lines.

9. (Previously Presented) A method of fabricating a liquid crystal panel according to claim 7, wherein, in the large substrate, the substrate forming regions are placed with a cutting projection line therebetween so that the sides provided with input-output terminals and terminals for conducting between substrates are directed in the opposite directions, and when the thin films for forming the alignment layers are formed, the thin films are formed in stripes along the cutting projection line.

10. (Currently Amended) A liquid crystal panel comprising:

- a first substrate;
- first electrodes formed on said first substrate;
- a first alignment layer formed over said first electrodes;
- a second substrate;
- second electrodes formed on said second substrate;
- a second alignment layer formed over said second electrodes;
- terminals formed on an said first and second substrates for conducting between said first and second electrodes;
- a sealant coupled between said first and second substrates so as to form a gap therebetween;

wherein each of said first and second alignment layers is formed ~~inside~~ on ~~the~~ and covers an inner region delimited by the sealant;

the alignment layer is formed from the inner region to an intermediate portion of a sealant region where the sealant is formed, along a side of the sealant provided with the terminals; and

the alignment layer crosses over the sealant region to an outer side of the sealant, along a side of the sealant so as to partially overlap the sealant in a region for conducting between the substrates and cross said sealant on a side of said first and second substrates other than [[a]] the side provided with said the terminals.

11. (Previously Presented) The liquid crystal panel of claim 10 wherein said first alignment layer is interposed between said sealant and said first substrate.

12. (Previously Presented) The liquid crystal panel of claim 10 wherein said second alignment layer is interposed between said sealant and said second substrate.

13. (Previously Presented) The liquid crystal panel of claim 10 wherein said first alignment layer extends to a perimeter of said first substrate.

14. (Previously Presented) The liquid crystal panel of claim 10 wherein said second alignment layer extends to a perimeter of said second substrate.

15. (Previously Presented) The liquid crystal panel of claim 10 wherein said side provided with said terminals for conducting between said first and second substrates includes input-output terminals.

16. (Previously Presented) The liquid crystal panel of Claim 10 further comprising:

a first transparent insulation film interposed between said first alignment layer and said first substrate over said first electrodes; and

a second transparent insulation film interposed between said second alignment layer and said second substrate over said second electrodes, said first and second transparent insulation films complementing a configuration of said first and second alignment layers.

17. (Currently Amended) A method of fabricating a liquid crystal panel comprising:

providing a ~~first pair of large substrates~~[[;]] defining including a plurality of smaller substrate forming regions ~~on said first substrate, said plurality of smaller substrate forming regions being~~ divided by a plurality of ~~projected~~ cutting lines, the liquid crystal panel fabricated by using each of the substrate forming regions;

~~depositing forming electrodes on said first substrate within each of said smaller substrate forming regions~~ on an inner side of each of the pair of large substrates;

forming terminals on each of the smaller substrate forming regions on the inner side of each of the pair of large substrates for conducting between the substrates, the terminals being connected through a conductive particle including in a sealant, the sealant bonding the pair of large substrates for every smaller substrate forming region ~~said first substrate; and~~

~~defining a sealant deposit region along each of said smaller substrate forming regions; and~~

~~depositing a thin film for forming an alignment layer on said first substrate inside the electrodes that covers an inner region of the substrate delimited by the sealant[[,]];~~

wherein the alignment layer is formed from the inner region to a intermediate portion of a sealant region on which the sealant is formed, along a side of the sealant provided with the terminals; and

the alignment layer crosses over the sealant region to an outer side of the sealant, along a side of the sealant other than the side provided with the terminals~~said thin film formed to partially overlap the sealant in a region for conducting between the substrates and cross said sealant deposit region on a side of each of said smaller substrate forming regions other than a side provided with said terminals.~~

18. (Currently Amended) The method of claim 17 wherein said ~~thin film~~ alignment layer is deposited so as to overlap said sealing deposit region along each of said smaller substrate forming regions.

19. (Currently Amended) The method of claim 17 wherein said ~~thin film~~ alignment layer is deposited so as to overlap said plurality of projected cutting lines.

20. (Currently Amended) The method of claim 17 further comprising depositing a sealant on said sealant ~~deposit~~-region of each of said smaller substrate forming regions.

21. (Currently Amended) The method of claim 20, further comprising:

~~providing a second substrate;~~

~~defining a plurality of second smaller substrate forming regions on said second substrate, said plurality of second smaller substrate forming regions being divided by a plurality of second projected cutting lines;~~

~~depositing second electrodes on said second substrate within each of said second smaller substrate forming regions;~~

~~forming terminals on said second substrate;~~

~~defining a second sealant deposit region along each of said second smaller substrate forming regions;~~

~~depositing a second thin film for forming a second alignment layer on said second substrate, said second thin film crossing said second sealant deposit region on a side of each of said second smaller substrate forming regions other than a side provided with said terminals;~~

~~bonding said second substrate to said first substrate~~ the pair of large substrates ~~by securing said sealant to said second sealant deposit region along each of said second smaller substrate forming regions on said second substrates; and~~

~~cutting said first and second~~ pair of ~~substrates along said projected cutting lines and said second projected cutting lines.~~

22. (Cancelled)

23. (Currently Amended) A liquid crystal panel comprising:

- a pair of substrates bonded to each other by a sealant with a predetermined gap therebetween;
- a liquid crystal enclosed in ~~the~~ a region delimited by the sealant between the pair of substrates;
- electrodes formed on an inner side of each of the pair of the substrates for controlling the alignment state of the liquid crystal;
- terminals formed on the inner side of each of the pair of substrates for conducting between the substrates, the terminals being connected through a conductive particle included in the sealant; and
- an alignment layer formed on the electrodes and ~~inside~~ covering the inner region delimited by the sealant;

wherein the alignment layer ~~is formed so as to partially overlap the sealant in a region for conducting between the substrates and cover a region for forming the sealant in a region other than the region for conducting between the substrates~~ is formed from the inner region to an intermediate portion of a sealant region on which the sealant is formed, along a side of the sealant provided with the terminals; and

the alignment layer crosses over the sealant region to an outer side of the sealant, along a side of the sealant other than the side provided with the terminals.

24. (Currently Amended) A liquid crystal panel comprising:
a first substrate;
first electrodes formed on an inner side of said first substrate;
a first alignment layer formed ~~over~~ on said first electrodes;
a second substrate;
second electrodes formed on an inner side said second substrate;
a second alignment layer formed ~~over~~ on said second electrodes; and
terminals formed on the inner side of a said first and second substrates for
conducting between said first and second electrodes, the terminals being connected
through a conductive particle included in a sealant;

[[a]] wherein the sealant is coupled between said first and second
substrates so as to form a gap therebetween;

~~wherein~~ each of said first and second alignment layers is formed inside of
and covers the an inner region delimited by the sealant;

said first and second alignment layers is formed from the inner region to
an intermediate portion of a sealant region on which the sealant is formed, along a side
of the sealant provided with the terminals; and

said first and second alignment layers crosses the sealant region to an
outer side of the sealant, along a side of the sealant ~~so as to partially overlap the~~
~~sealant in a region for conducting between the substrates and cover said sealant on a~~
~~side of said first and second substrates~~ other than [[a]] the side provided with said
terminals.

25. (New) The liquid crystal panel according to claim 1, further comprising a transparent insulation film formed on the electrodes so as to cover the inner region delimited by the sealant;

wherein the alignment layer is formed on the transparent insulation film, and the transparent insulation film and the alignment layer are formed from the inner region to an intermediate portion of a sealant region on which the sealant is formed, along a side of the sealant provided with the terminals; and

the transparent insulation film and the alignment layer cross over the sealant region to an outer side of the sealant, along a side of the sealant other than the side provided with the terminals.

26. (New) The method of claim 17, further comprising a step of forming a transparent insulation film on the electrodes so as to cover the inner region delimited by the sealant;

wherein the alignment layer is formed on the transparent insulation film, and the transparent insulation film and the alignment layer are formed from the inner region to an intermediate portion of a sealant region on which a sealant is formed, along a side of the sealant provided with the terminals; and

the transparent insulation film and the alignment layer cross over the sealant region to an outer side of the sealant, along a side of the sealant other than the side provided with the terminals.

DRAWINGS

The attached "Replacement Sheets" of drawings include changes to Figures 11 and 12. The attached "Replacement Sheets," which include Figures 11 and 12, replace the original sheets including Figures 11 and 12.

Attachment:

Annotated Sheets Showing Changes to Figures 11 and 12